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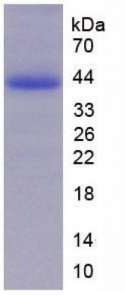
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

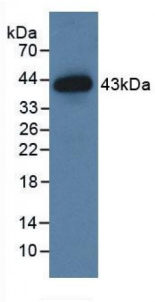
DATASHEET

Human Extracellular Signal Regulated Kinase 2 (ERK2) Protein (Active)

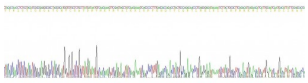
Catalogue No.:abx652294



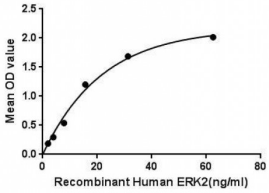
SDS-PAGE analysis of Human ERK2 Protein.



Western blot analysis of recombinant Human ERK2 Protein, using Rabbit Anti-Human ERK2 Antibody (abx104057).



Gene sequencing extract of Human ERK2 Protein.



Binding activity of ERK2 with Protein Tyrosine Phosphatase Receptor Type J (PTPRJ).

Recombinant Extracellular Signal Regulated Kinase 2 (ERK2) is an active protein from Human. It is produced in E. coli using Prokaryotic expression.

Target:	Extracellular Signal Regulated Kinase 2 (ERK2)
Origin:	Human

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Host: E. coli

Tested Applications: WB, SDS-PAGE

Purity: > 95%

Form: Lyophilized

Reconstitution: Reconstitute in 20 mM Tris, 150 mM NaCl (pH 8.0) to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Conjugation: Unconjugated

Storage: Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

Expression: Recombinant

Molecular Weight: 42.8 kDa (Predicted Molecular Mass), 43 kDa (Accurate Molecular Mass as determined by SDS-PAGE)

Swiss Prot: P28482

Sequence Fragment: Tyr25-Ser360

Sequence: YTNLSY IGEGAYGMVC SAYDNVNKVR VAIKKISPFE HQTYCQRTLR EIKILLRFRH ENIIGINDII RAPTIEQMKD VYIVQDLMET DLYKLLKTQH LSNDHICYFL YQILRGLKYI HSANVLHRDL KPSNLLLNTT CDLKICDFGL ARVADPDHDH TGFLTEYVAT RWYRAPEIML NSKGYTKSID IWSVGCILAE MLSNRPIFPG KHYLDQLNHI LGILGSPSQE DLNCIINLKA RNYLLSLPHK NKVPWNRLFP NADSKALDLL DKMLTFNPHK RIEVEQALAH PYLEQYYDPS DEPIAEAPFK FDMELDDLPK EKLKELIFEE TARFQPGYRS

Tag: N-terminal His-tag.

Activity: Active

Biological Activity: Protein Tyrosine Phosphatase Receptor Type J (PTPRJ) has been identified as an interactor of ERK2, therefore a binding ELISA assay was conducted to detect the interaction of recombinant human ERK2 and recombinant human PTPRJ. Briefly, ERK2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PTPRJ-coated microplate wells and incubated for 2 h at 37 °C. Wells were washed with PBST and incubated for 1 h with anti-ERK2 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, the wells were aspirated and washed 3 times. TMB substrate solution was added to the wells, which were then incubated for 15-25 minutes at 37°C. Finally, 50 µl stop solution was added to the wells and the absorbance was measured at 450 nm immediately. The binding activity of ERK2 and PTPRJ is shown in Figure 4, where it can be seen that the effect is dose-dependent.

Buffer: Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl and 5% Trehalose.

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Note: This product is for research use only.